

CLAIMS

What is claimed is:

- 1 *SAC BS* 1. A method comprising the steps of:
2 transmitting a primary packet from a source node towards a
3 destination node on a full duplex bus;
4 receiving a NAK while the primary packet is being transmitted; and
5 aborting the transmission without sending all of the primary
6 packet.
- 1 2. The method of claim 1 further comprising the step of:
2 reclaiming bandwidth not used as a result of the aborting step.
- 1 3. The method of claim 2 wherein the reclaiming step comprises the
2 steps of:
3 granting the bus to a highest priority requesting node; and
4 beginning transmission of a next primary packet from the highest
5 priority requesting node.
- 1 4. A method comprising the steps of:
2 receiving a primary packet at a destination node;
3 identifying, during the receiving step, that the node cannot
4 successfully accept the primary packet; and
5 sending a NAK to the originator of the primary packet concurrently
6 with the receiving step.

1 5. A system comprising:
2 a full duplex bus;
3 a source node coupled to the bus, the source node to transmit a
4 primary packet; and
5 a destination node coupled to the bus, to receive the primary packet,
6 the destination node to generate a NAK if the primary packet cannot be
7 successfully accepted, the NAK generated concurrently with the receipt of the
8 primary packet.

1 6. The system of claim 5 wherein the source node aborts a
2 transmission responsive to the NAK.

1 7. The system of claim 6 further comprising:
2 a plurality of additional nodes coupled to the bus to form a tree topology
3 wherein the source node grants the bus to a highest priority requesting node
4 upon aborting the transmission.

1 8. The system of claim 5 wherein an inability to accept the primary
2 packet is caused by unavailability of a needed resource.

1 9. An apparatus comprising:
2 a transceiver;
3 a state machine coupled to the transceiver, the state machine to
4 generate NAK in response to an inability to successfully accept a primary packet,
5 the NAK generated concurrently with an ongoing arrival of the primary packet.

1 10. The apparatus of claim 9 wherein the inability to accept is caused by
2 resource unavailability.

1 11. The apparatus of claim 9 wherein when the apparatus is a source of
2 a primary packet, it aborts a transmission of the primary packet when a NAK is
3 received.